

Use Attainability Analysis

for

WBID 0855 Muddy Creek

Submitted by  
Tetra Tech, Inc

To  
Missouri Department of Natural Resources  
Water Protection Program

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet A - Water Body Identification**

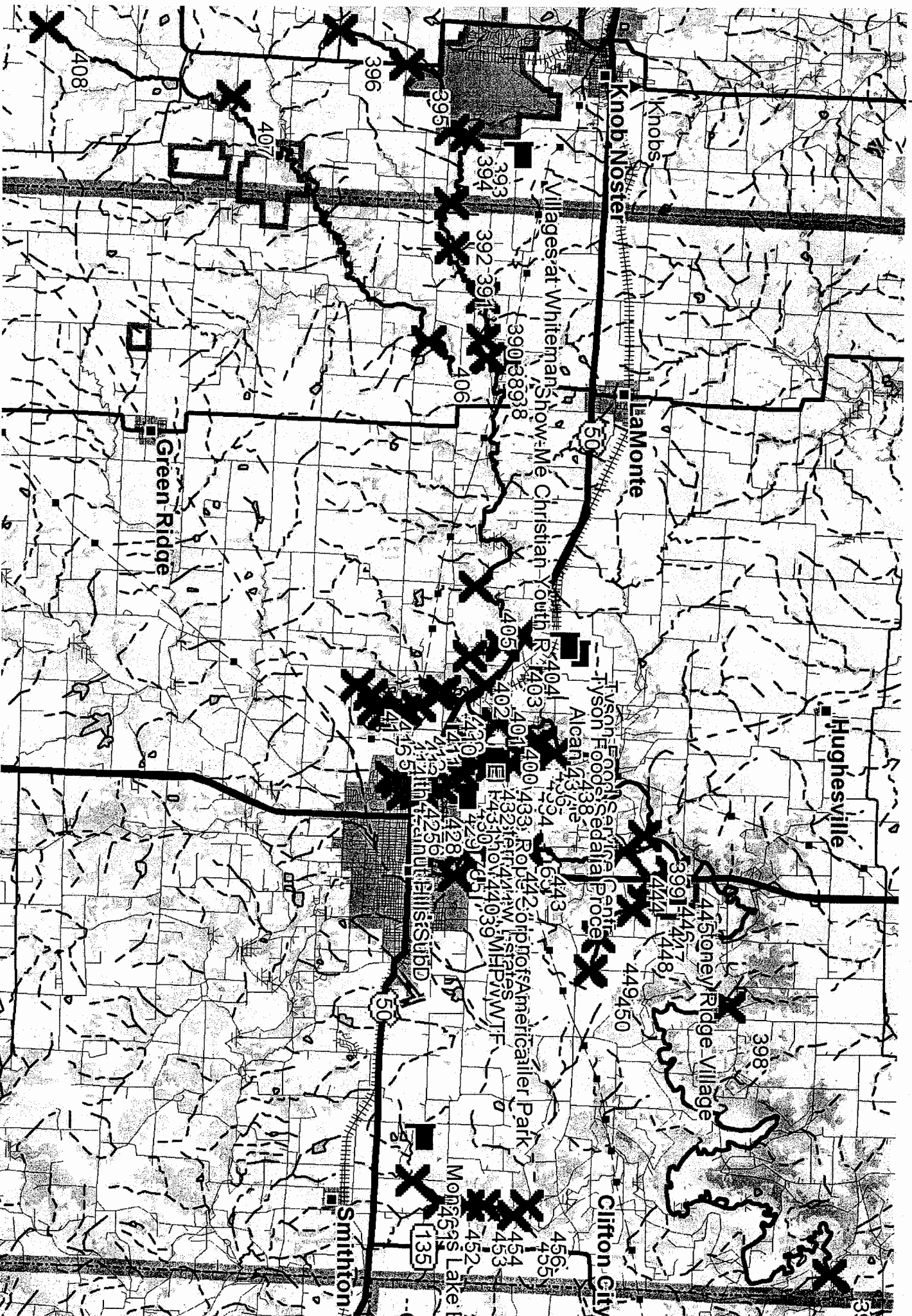
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WATER PROTECTION PROGRAM

|  |   |
|--|---|
| Water Body Name:<br>(from USGS 7.5' quad)      | Muddy Cr.   |
| 8-digit HUC:                                   | 10300103  |
| Missouri WBID #:                               | 0855  |
| County:  | Pettis  |
| Upstream Legal Description:                    |   |
| Downstream Legal Description:                  |   |
| Upstream Coordinates:<br>(UGS 84, ddd.ddddd)   | 38.81445N 093.06388W  |
| Downstream Coordinates:<br>(UGS 84, ddd.ddddd) | 38.58681N 093.57573W  |
| Discharger Facility Name(s):                   | Alcan Cable   |
| Discharger Permit Number(s):                   |   |
| Number of Sites Evaluated:                     | 12 (397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408) |
| Name of Surveyor and Telephone Number:         | Adam Pettig   |
| Organization:                                  | Tetra Tech  |
| Position:                                      | Field Scientist, Team Leader                                    |

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Pettig Date: 6/30/05

Muddy Creek



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

\*Alternate due to  
the other site being  
inaccessible.

|   |   |        |
|---|---|--------|
| Missouri WBID #: <b>0855 (391)</b>                | Site Location Description:<br><b>Look out Rd @ Bridge</b> |        |
| Site GPS Coordinates: <b>38.81445N 093.06388W</b> |   |        |
| Date & Time: <b>6/30/2005 1300</b>                | Facility Name: <b>Alcan Cable</b>                         |        |
| Personnel: <b>AR EY</b>                           | Permit Number:  |        |
| Current Weather Conditions: <b>Overcast Warm</b>  | Weather Conditions for Past 7 days:                       |        |
| Photo Ids: Upstream: <b>93AA</b>                  | Downstream: <b>94AA</b>                                   | Other: |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)  
 Pictures:  
**Fishing line 096AA**  
**Footpath 95AA**

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |   |   |   |
|--|--------------------------------------|---|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas                                | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails                              | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input type="checkbox"/> Steep slopes           | <input checked="" type="checkbox"/> Other: <b>None of the above</b> |   |

#### Evidence of Human Use\*:

|   |  |  |   |  |
|---|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings      | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:           |  |  |   |  |

#### Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

AR 06/30/05

**Stream Morphology:**

**Upstream View Physical Dimensions:**

|  |                        |   |                                   |                                  |
|--|------------------------|---|-----------------------------------|----------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                 |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                 |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>25m</u> | Length (ft): <u>25m</u>   | Avg. Depth (ft): <u>&gt;1.4m</u>  | Max. Depth (ft): <u>&gt;1.4m</u> |
| <input checked="" type="checkbox"/> Flow | Present?               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                  |

**Downstream View Physical Dimensions:**

|  |                        |   |                                   |                                  |
|--|------------------------|---|-----------------------------------|----------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                 |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                 |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>30m</u> | Length (ft): <u>20m</u>   | Avg. Depth (ft): <u>&gt;1.4m</u>  | Max. Depth (ft): <u>&gt;1.4m</u> |
| <input checked="" type="checkbox"/> Flow | Present?               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                  |

**Substrate\*:** (These values should add up to 100%.)

|                    |                    |                  |                  |                      |                    |
|--------------------|--------------------|------------------|------------------|----------------------|--------------------|
| <u>10</u> % Cobble | <u>30</u> % Gravel | <u>30</u> % Sand | <u>15</u> % Silt | <u>15</u> % Mud/Clay | <u>0</u> % Bedrock |
|--------------------|--------------------|------------------|------------------|----------------------|--------------------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|             |
|-------------|
| <u>None</u> |
|-------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |                                 |  |   |   |
|------------------|---------------------------------|---------------------------------|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u> |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam                      | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Reth Date: 06/30/05

Organization: TE Position: Sci. I.

QC 214 6-30-2005



0855\_397 DS



0855\_397 US



0855\_397 Fishing Line



0855\_397 Footpath



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|   |   |        |
|---|---|--------|
| Missouri WBID #: <b>0855 (398)</b>                | Site Location Description: <b>down foot path</b>  |        |
| Site GPS Coordinates: <b>38.80606N 093.17294W</b> | <b>Located @ a Public Fishing Access off Rt E</b> |        |
| Date & Time: <b>6/30/2005 1346</b>                | Facility Name: <b>Alcon Cable</b>                 |        |
| Personnel: <b>AR EY</b>                           | Permit Number:                                    |        |
| Current Weather Conditions: <b>Cloudy Hot</b>     | Weather Conditions for Past 7 days:               |        |
| Photo Ids: Upstream: <b>97AA</b>                  | Downstream: <b>98AA</b>                           | Other: |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Pictures:**

**Trash 99AA**

**Footpath 100AA**

**Sign 101AA**

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input checked="" type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests                  | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input type="checkbox"/> Steep slopes                      | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|                                      |   |  |   |  |
|--------------------------------------|---|--|---|--|
| <input type="checkbox"/> Roads       | <input checked="" type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites                | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:      |   |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

**AR 06-30-05**



**Stream Morphology:**

**Upstream View Physical Dimensions:**

|  |                        |   |  |                              |
|--|------------------------|---|--|------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                               | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Run  | Width (ft): <u>20m</u> | Length (ft): <u>20m</u>   | Avg. Depth (ft): <u>.40m</u>                   | Max. Depth (ft): <u>0.5m</u> |
| <input type="checkbox"/> Pool            | Width (ft):            | Length (ft):  | Avg. Depth (ft):                               | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Flow | Present?               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): <u>1m/7s</u> |                              |

**Downstream View Physical Dimensions:**

|  |                        |   |                                   |                                 |
|--|------------------------|---|-----------------------------------|---------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>20m</u> | Length (ft): <u>20m</u>   | Avg. Depth (ft): <u>&gt;1.4</u>   | Max. Depth (ft): <u>&gt;1.4</u> |
| <input checked="" type="checkbox"/> Flow | Present?               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                 |

**Substrate\*:** (These values should add up to 100%.)

|                    |                    |                 |                 |                     |                    |
|--------------------|--------------------|-----------------|-----------------|---------------------|--------------------|
| <u>30</u> % Cobble | <u>60</u> % Gravel | <u>0</u> % Sand | <u>0</u> % Silt | <u>0</u> % Mud/Clay | <u>0</u> % Bedrock |
|--------------------|--------------------|-----------------|-----------------|---------------------|--------------------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|  |
|--|
|  |
|--|

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |                                 |  |  |   |
|------------------|---------------------------------|---------------------------------|--|--|---|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input type="checkbox"/> Milky           | <input checked="" type="checkbox"/> Other: <u>Brown</u> |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None            | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input checked="" type="checkbox"/> Foam           | <input type="checkbox"/> None            | <input type="checkbox"/> Other:                         |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adrian Petty Date: 06/30/05

Organization: Tt Position: SCI. I

QC: Eag 6/30/2005

0855\_398 DS



0855\_398 Fishing Access





0855\_398 Footpath



0855\_398 Trash



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|   |                          |                                     |  |
|---|--------------------------|-------------------------------------|--|
| Missouri WBID #: <b>0855(399)</b>                     |                          | Site Location Description:          |  |
| Site GPS Coordinates: <b>38.78091N 093.24323W</b>     |                          | <b>McCurdy Rd @ Bridge</b>          |  |
| Date & Time: <b>6/30/2005 1420</b>                    |                          | Facility Name: <b>Alcon Cable</b>   |  |
| Personnel: <b>AR EY</b>                               |                          | Permit Number:                      |  |
| Current Weather Conditions: <b>Partly Cloudy Warm</b> |                          | Weather Conditions for Past 7 days: |  |
| Photo Ids: Upstream: <b>103AA</b>                     | Downstream: <b>102AA</b> | Other:                              |  |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)  
**None observed**

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |   |  |   |
|--|--------------------------------------|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input type="checkbox"/> Steep slopes           | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|   |  |  |   |  |
|---|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings      | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:           |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

**AVR 06-30-05**

**Stream Morphology:**

**Upstream View Physical Dimensions:**

|  |                        |   |                                   |                               |
|--|------------------------|---|-----------------------------------|-------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):              |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):              |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>15m</u> | Length (ft): <u>20m</u>   | Avg. Depth (ft): <u>71.0m</u>     | Max. Depth (ft): <u>71.0m</u> |
| <input checked="" type="checkbox"/> Flow | Present?               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                               |

**Downstream View Physical Dimensions:**

|  |                        |   |                                   |                               |
|--|------------------------|---|-----------------------------------|-------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):              |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):              |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>25m</u> | Length (ft): <u>20m</u>   | Avg. Depth (ft): <u>71.4m</u>     | Max. Depth (ft): <u>71.4m</u> |
| <input checked="" type="checkbox"/> Flow | Present?               | <del><input checked="" type="checkbox"/> Yes</del> <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                               |

EY 6-30-05

**Substrate\*:** (These values should add up to 100%.)

|                    |                    |                 |                  |                      |                    |
|--------------------|--------------------|-----------------|------------------|----------------------|--------------------|
| <u>30</u> % Cobble | <u>30</u> % Gravel | <u>0</u> % Sand | <u>20</u> % Silt | <u>20</u> % Mud/Clay | <u>0</u> % Bedrock |
|--------------------|--------------------|-----------------|------------------|----------------------|--------------------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|             |
|-------------|
| <u>None</u> |
|-------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |                                 |  |   |   |
|------------------|---------------------------------|---------------------------------|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u> |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam                      | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam R. Hett Date: 06/30/05

Organization: Tt Position: JCI. I.

QC EY 6-30-2005



0855\_399 DS



0855\_399 US



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|  |                  |   |
|--|------------------|---|
| Missouri WBID #: 0855 (400)                |                  | Site Location Description:              |
| Site GPS Coordinates: 38.73287N 093.28958W |                  | Oakgrave lane @ low flow/water crossing |
| Date & Time: 6/29/2005 1315                |                  | Facility Name: Alcan cable              |
| Personnel: AR, EY                          |                  | Permit Number:                          |
| Current Weather Conditions: Hot Clear      |                  | Weather Conditions for Past 7 days:     |
| Photo Ids: Upstream: 49AA                  | Downstream: 50AA | Other: 51AA Trash                       |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

52AA Trash, Camping, & ATV tracks, digging in the gravel bar  
 54  
 53AA Tackle & fishing line  
 EY  
 6/29/05  
 55AA Fishing Tackle  
 56AA Boat, discarded

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands  | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests        | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|   |  |  |   |   |
|---|--|--|---|---|
| <input checked="" type="checkbox"/> Roads   | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input checked="" type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings  | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input checked="" type="checkbox"/> Fishing Tackle  |
| <input checked="" type="checkbox"/> Other: Hamburger spread around on gravel bar 53AA |  |  |   |   |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

NR - 06/29/05

**Stream Morphology:**

**Upstream View Physical Dimensions:**

|   |   |                                   |                              |                                   |
|---|---|-----------------------------------|------------------------------|-----------------------------------|
| <input type="checkbox"/> Riffle                   | Width (ft):   | Length (ft):                      | Avg. Depth (ft):             | Max. Depth (ft):                  |
| <input type="checkbox"/> Run                      | Width (ft):   | Length (ft):                      | Avg. Depth (ft):             | Max. Depth (ft):                  |
| <input checked="" type="checkbox"/> Pool          | Width (ft): <u>25.4m</u>  | Length (ft): <u>76 ft</u>         | Avg. Depth (ft): <u>1.2m</u> | Max. Depth (ft): <u>&gt; 1.4m</u> |
| <input checked="" type="checkbox"/> Flow Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |                                   |

**Downstream View Physical Dimensions:**

|   |   |                                   |                               |                              |
|---|---|-----------------------------------|-------------------------------|------------------------------|
| <input type="checkbox"/> Riffle                   | Width (ft):   | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft):             |
| <input type="checkbox"/> Run                      | Width (ft):   | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Pool          | Width (ft): <u>11.3m</u>  | Length (ft): <u>130 ft</u>        | Avg. Depth (ft): <u>0.62m</u> | Max. Depth (ft): <u>0.7m</u> |
| <input checked="" type="checkbox"/> Flow Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                               |                              |

**Substrate\*:** (These values should add up to 100%.)

|  |   |   |                                 |                                     |                                    |
|--|---|---|---------------------------------|-------------------------------------|------------------------------------|
| <input checked="" type="checkbox"/> % Cobble | <input checked="" type="checkbox"/> 70 % Gravel | <input checked="" type="checkbox"/> 10 % Sand | <input type="checkbox"/> % Silt | <input type="checkbox"/> % Mud/Clay | <input type="checkbox"/> % Bedrock |
|--|---|---|---------------------------------|-------------------------------------|------------------------------------|

10% Concrete

10% Boulder

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|                     |
|---------------------|
| <u>Water Willow</u> |
|---------------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |                                 |  |   |   |
|------------------|---------------------------------|---------------------------------|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u> |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam                      | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Alb Date: 6/29/05

Organization: It Position: JCI - I.

QC: Ely 6-29-2005



0855\_400 DS



0855\_400 US



0855\_400 Boot



0855\_400 Camp Food







0855\_400 Fishing Gear



0855\_400 Fishing Gear (2)





0855\_400 Trash



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|  |  |
|--|--|
| Missouri WBID #: 0855 (401)                | Site Location Description:<br>Rt 50 @ Bridge |
| Site GPS Coordinates: 38.73403N 093.32163W |  |
| Date & Time: 6/29/2005 1500                | Facility Name: Alcan Cable                   |
| Personnel: AR EY                           | Permit Number:                               |
| Current Weather Conditions: Hot Clear      | Weather Conditions for Past 7 days:          |
| Photo Ids: Upstream: 66AA                  | Downstream: 67AA                             |
| Other:                                     |  |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Footprints 65AA

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands  | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests        | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|   |   |  |   |  |
|---|---|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input checked="" type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings      | <input type="checkbox"/> Camping Sites                | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:           |   |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

AR 6/29/05

**Stream Morphology:**

**Upstream View Physical Dimensions:** Estimates \*

|  |                          |   |                                   |                                |
|--|--------------------------|---|-----------------------------------|--------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):              | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):               |
| <input type="checkbox"/> Run             | Width (ft):              | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):               |
| <input type="checkbox"/> Pool            | Width (ft): <u>15m *</u> | Length (ft): <u>30m *</u>   | Avg. Depth (ft): <u>1.0m *</u>    | Max. Depth (ft): <u>1.4m *</u> |
| <input checked="" type="checkbox"/> Flow | Present?                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): | <u>6-29-2005</u>               |

**Downstream View Physical Dimensions:**

|                                 |                          |  |                                   |                               |
|---------------------------------|--------------------------|--|-----------------------------------|-------------------------------|
| <input type="checkbox"/> Riffle | Width (ft):              | Length (ft):   | Avg. Depth (ft):                  | Max. Depth (ft):              |
| <input type="checkbox"/> Run    | Width (ft):              | Length (ft):   | Avg. Depth (ft):                  | Max. Depth (ft):              |
| <input type="checkbox"/> Pool   | Width (ft): <u>49 ft</u> | Length (ft): <u>2m</u>                                   | Avg. Depth (ft): <u>0.30m</u>     | Max. Depth (ft): <u>0.55m</u> |
| <input type="checkbox"/> Flow   | Present?                 | <input type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                               |

**Substrate\*:** (These values should add up to 100%.)

|                    |                   |                  |                  |                      |                    |
|--------------------|-------------------|------------------|------------------|----------------------|--------------------|
| <u>60</u> % Cobble | <u>0</u> % Gravel | <u>10</u> % Sand | <u>15</u> % Silt | <u>15</u> % Mud/Clay | <u>0</u> % Bedrock |
|--------------------|-------------------|------------------|------------------|----------------------|--------------------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|                     |
|---------------------|
| <u>Water willow</u> |
|---------------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |                                 |  |   |  |
|------------------|---------------------------------|---------------------------------|--|---|--|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input type="checkbox"/> None             | <input checked="" type="checkbox"/> Other: <u>earthy</u> |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u>  |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                          |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input checked="" type="checkbox"/> Foam           | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                          |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Riff Date: 6/29/05

Organization: JK Position: SEI

\* The water was very deep in the up stream portion of the stream.

QC 224 6-29-2005



0855\_401 DS



0855\_401 US



0855\_401 Foot Print



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|  |                  |  |  |
|--|------------------|--|--|
| Missouri WBID #: 0855 (402)                  |                  | Site Location Description:<br>Rt 50 @ Bridge |  |
| Site GPS Coordinates: 38.72858 N 093.30615 W |                  |  |  |
| Date & Time: 6/29/2005 1530                  |                  | Facility Name: Alcan Cable                   |  |
| Personnel: AR EY                             |                  | Permit Number:                               |  |
| Current Weather Conditions: Hot Clear        |                  | Weather Conditions for Past 7 days:          |  |
| Photo Ids: Upstream: 69AA                    | Downstream: 68AA | Other:                                       |  |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Fresh Cigarettes 70AA  
Camp fire 71AA

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands  | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests        | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|   |   |   |   |  |
|---|---|---|---|--|
| <input type="checkbox"/> Roads                        | <input checked="" type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform            | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings                  | <input type="checkbox"/> Camping Sites                | <input checked="" type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input checked="" type="checkbox"/> Other: CIGARETTES |   |   |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

ARL 06/29/05

**Stream Morphology:**

**Upstream View Physical Dimensions:**

|  |                        |   |                                   |                                   |
|--|------------------------|---|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                  |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                  |
| <input type="checkbox"/> Pool            | Width (ft): <u>15m</u> | Length (ft): <u>20m</u>   | Avg. Depth (ft): <u>&gt; 1.4m</u> | Max. Depth (ft): <u>&gt; 1.4m</u> |
| <input checked="" type="checkbox"/> Flow | Present?               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                   |

**Downstream View Physical Dimensions:**

|  |                         |   |                                   |                              |
|--|-------------------------|---|-----------------------------------|------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):             | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Run             | Width (ft):             | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>9.5m</u> | Length (ft): <u>20m</u>   | Avg. Depth (ft): <u>0.35m</u>     | Max. Depth (ft): <u>0.5m</u> |
| <input checked="" type="checkbox"/> Flow | Present?                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |

**Substrate\*:** (These values should add up to 100%.)

|                    |          |        |                  |                      |                     |
|--------------------|----------|--------|------------------|----------------------|---------------------|
| <u>10</u> % Cobble | % Gravel | % Sand | <u>25</u> % Silt | <u>25</u> % Mud/Clay | <u>40</u> % Bedrock |
|--------------------|----------|--------|------------------|----------------------|---------------------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|                     |
|---------------------|
| <u>Water willow</u> |
|---------------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |   |  |   |                                 |
|------------------|---------------------------------|---|--|---|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky            | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other: |
| Color:           | <input type="checkbox"/> Clear  | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids           | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum             | <input type="checkbox"/> Foam                      | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam R. H. Date: 06/29/05

Organization: FE Position: Sci. I.

QC Ely 6-29-2005



0855\_402 DS



0855\_402 US





0855\_402 Camp Fire



0855\_402 Fresh Cigarettes



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|  |                  |   |  |
|--|------------------|---|--|
| Missouri WBID #: 0855 (403)                |                  | Site Location Description:                |  |
| Site GPS Coordinates: 38.73402N 093.32170W |                  | Ridge Crest place @ gravel water crossing |  |
| Date & Time: 6/29/05 1435                  |                  | Facility Name: Alcan Cable                |  |
| Personnel: AR EY                           |                  | Permit Number:                            |  |
| Current Weather Conditions: Hot Clear      |                  | Weather Conditions for Past 7 days:       |  |
| Photo Ids: Upstream: 59AA                  | Downstream: 60AA | Other:                                    |  |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

ATV Tracks 61AA  
 4WD Tracks 62AA  
 Fireworks 63AA  
 Beer Cans 64AA (Trash)

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands  | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests        | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|   |  |  |   |   |
|---|--|--|---|---|
| <input checked="" type="checkbox"/> Roads gravel Rd | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input checked="" type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings                | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle             |
| <input type="checkbox"/> Other:                     |  |  |   |   |

**ite Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any her items that may be of interest. (Include photographs)

ome of this information is not intended to directly influence a decision on any one particular recreational use analysis but y point to conditions that need further analysis or that effect another use.

AMZ 06/29/05

**Stream Morphology:**

**Upstream View Physical Dimensions:**

|  |                            |   |                                   |                                    |
|--|----------------------------|---|-----------------------------------|------------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):                | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                   |
| <input type="checkbox"/> Run             | Width (ft):                | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                   |
| <input type="checkbox"/> Pool            | Width (ft): <u>125 17m</u> | Length (ft): <u>125 ft</u>  | Avg. Depth (ft): <u>0.6m</u>      | Max. Depth (ft): <u>0.75m 0.8m</u> |
| <input checked="" type="checkbox"/> Flow | Present?                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                    |

**Downstream View Physical Dimensions:**

|  |                       |   |                                   |                            |
|--|-----------------------|---|-----------------------------------|----------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):           |
| <input type="checkbox"/> Run             | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):           |
| <input type="checkbox"/> Pool            | Width (ft): <u>9m</u> | Length (ft): <u>149 ft</u>  | Avg. Depth (ft): <u>0.65m</u>     | Max. Depth (ft): <u>1m</u> |
| <input checked="" type="checkbox"/> Flow | Present?              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                            |

**Substrate\*:** (These values should add up to 100%.)

|                    |                    |                  |                 |                     |                    |
|--------------------|--------------------|------------------|-----------------|---------------------|--------------------|
| <u>10</u> % Cobble | <u>80</u> % Gravel | <u>10</u> % Sand | <u>0</u> % Silt | <u>0</u> % Mud/Clay | <u>0</u> % Bedrock |
|--------------------|--------------------|------------------|-----------------|---------------------|--------------------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|             |
|-------------|
| <u>None</u> |
|-------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |   |                                 |  |   |   |
|------------------|---|---------------------------------|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage                                     | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input checked="" type="checkbox"/> Other: <u>motor oil</u> |
| Color:           | <input type="checkbox"/> Clear                                      | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u>     |
| Bottom Deposit:  | <input type="checkbox"/> Sludge                                     | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                             |
| Surface Deposit: | <input checked="" type="checkbox"/> Oil <u>motor oil / gasoline</u> | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam                      | <input type="checkbox"/> None             | <input checked="" type="checkbox"/> Other: <u>film</u>      |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Lutz Date: 6/29/05

Organization: JE Position: ser. I.

QC E2g 6-29-2005



0855\_403 DS



0855\_403 US





0855\_403 4-WD Tracks



0855\_403 Fireworks





0855\_403 Road Crossing ATV Trail



0855\_403 Trash



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|  |                         |   |  |
|--|-------------------------|---|--|
| Missouri WBID #: <u>0855 (404)</u>                 |                         | Site Location Description:  |  |
| Site GPS Coordinates: <u>38.73989 N 093 326234</u> |                         | <u>Ridge Crest PL. @ the end of the road down the hill 500 ft</u> |  |
| Date & Time: <u>6/29/2005 1403</u>                 |                         | Facility Name: <u>Alcan Cable</u>                                 |  |
| Personnel: <u>AR EY</u>                            |                         | Permit Number:  |  |
| Current Weather Conditions: <u>Clear Hot</u>       |                         | Weather Conditions for Past 7 days:                               |  |
| Photo Ids: Upstream: <u>57AA</u>                   | Downstream: <u>58AA</u> | Other:  |  |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

None observed

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands  | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests        | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|                                      |  |  |   |  |
|--------------------------------------|--|--|---|--|
| <input type="checkbox"/> Roads       | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:      |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

AR 6/29/05

EX  
6/29/05

**Stream Morphology:**

**Upstream View Physical Dimensions:** 6m

|  |                          |   |                                   |                                   |
|--|--------------------------|---|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):              | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                  |
| <input type="checkbox"/> Run             | Width (ft): <u>44 ft</u> | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                  |
| <input type="checkbox"/> Pool            | Width (ft): <u>7.8m</u>  | Length (ft): <u>10 ft</u>   | Avg. Depth (ft): <u>0.9m</u>      | Max. Depth (ft): <u>&gt; 1.4m</u> |
| <input checked="" type="checkbox"/> Flow | Present?                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                   |

**Downstream View Physical Dimensions:** EX 6/29/05

|  |                         |   |                                   |                            |
|--|-------------------------|---|-----------------------------------|----------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):             | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):           |
| <input type="checkbox"/> Run             | Width (ft):             | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):           |
| <input type="checkbox"/> Pool            | Width (ft): <u>7.8m</u> | Length (ft): <u>4 ft</u>  | Avg. Depth (ft): <u>0.6m</u>      | Max. Depth (ft): <u>1m</u> |
| <input checked="" type="checkbox"/> Flow | Present?                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                            |

**Substrate\*:** (These values should add up to 100%.)

|                    |                    |                 |                 |                     |                     |
|--------------------|--------------------|-----------------|-----------------|---------------------|---------------------|
| <u>50</u> % Cobble | <u>40</u> % Gravel | <u>0</u> % Sand | <u>0</u> % Silt | <u>0</u> % Mud/Clay | <u>10</u> % Bedrock |
|--------------------|--------------------|-----------------|-----------------|---------------------|---------------------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|                     |
|---------------------|
| <u>water willow</u> |
|---------------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |  |  |   |   |
|------------------|---------------------------------|--|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky           | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green           | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u> |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids          | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input checked="" type="checkbox"/> Scum | <input checked="" type="checkbox"/> Foam           | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |

**Comments:** Please attach additional comments (including information from interviews) to this form.

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Rott Date: 6/29/05

Organization: TE Position: SR. I.

QC 22g 6-29-2005



0855\_404 DS



0855\_404 US



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|  |                                     |
|--|-------------------------------------|
| Missouri WBID #: 0855 (405)                | Site Location Description:          |
| Site GPS Coordinates: 38.72546N 093.34605W | Wresden Rd @ bridge                 |
| Date & Time: 6/29/2005 1605                | Facility Name: Alcan Cable          |
| Personnel: AR EY                           | Permit Number:                      |
| Current Weather Conditions: Hot Clear      | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: AA72                  | Downstream: 73AA                    |
| Other:                                     |                                     |

#### Uses Observed\*:

|                                       |                                      |                                       |  |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|--|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing            | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading            | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Picture:  
 Cow trail: 74AA  
 Adult Magazine: 75AA (trash)  
 ATV Path: 76AA  
 Cows in H<sub>2</sub>O: 79AA, 78AA, 77AA

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands  | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests        | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|   |  |  |  |   |
|---|--|--|--|---|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input checked="" type="checkbox"/> Livestock Watering | <input checked="" type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings      | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge               | <input type="checkbox"/> Fishing Tackle             |
| <input type="checkbox"/> Other:           |  |  |  |   |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

\*Distances Paced off

**Stream Morphology:**

**Upstream View Physical Dimensions:**

|  |                          |   |                                   |                              |
|--|--------------------------|---|-----------------------------------|------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):              | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Run             | Width (ft):              | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>15.1m</u> | Length (ft): <u>20m*</u>  | Avg. Depth (ft): <u>1.2m</u>      | Max. Depth (ft): <u>1.4m</u> |
| <input checked="" type="checkbox"/> Flow | Present?                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |

**Downstream View Physical Dimensions:**

|  |                          |   |                                   |                              |
|--|--------------------------|---|-----------------------------------|------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):              | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Run             | Width (ft):              | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Pool            | Width (ft): <u>12.5m</u> | Length (ft): <u>25m*</u>  | Avg. Depth (ft): <u>0.7m</u>      | Max. Depth (ft): <u>0.8m</u> |
| <input checked="" type="checkbox"/> Flow | Present?                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |

**Substrate\*:** (These values should add up to 100%.)

|                   |                   |                 |                  |                      |                     |
|-------------------|-------------------|-----------------|------------------|----------------------|---------------------|
| <u>0</u> % Cobble | <u>0</u> % Gravel | <u>0</u> % Sand | <u>35</u> % Silt | <u>35</u> % Mud/Clay | <u>10</u> % Bedrock |
|-------------------|-------------------|-----------------|------------------|----------------------|---------------------|

Boulder 20%

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

None

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |  |  |   |   |
|------------------|---------------------------------|--|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky           | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green           | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u> |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids          | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input checked="" type="checkbox"/> Scum | or <input checked="" type="checkbox"/> Foam        | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |

**Comments:** Please attach additional comments (including information from interviews) to this form.

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Kelly Date: 06/29/05

Organization: FE Position: Sci. I.

QC E24 6-29-2005



0855\_405 DS



0855\_405 US





0855\_405 ATV Path



0855\_405 Trash



0855\_405 Cow Path





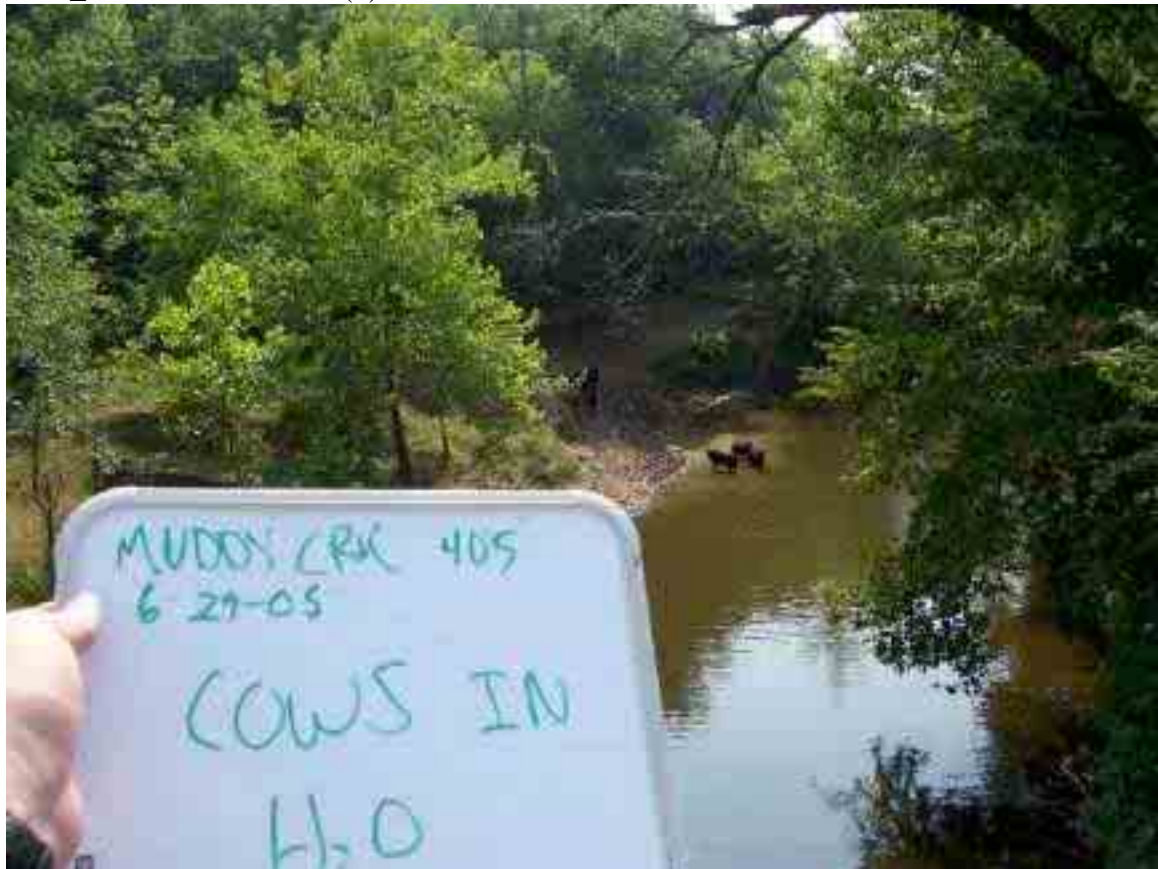
0855\_405 Cows in Water (1)



0855\_405 Cows in Water (2)



0855\_405 Cows in Water (3)





## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|  |                                     |        |
|--|-------------------------------------|--------|
| Missouri WBID #: 0855 (406)                | Site Location Description:          |        |
| Site GPS Coordinates: 38.71037N 093.44733W | Y@ Bridge                           |        |
| Date & Time: 6/30/2005 1100                | Facility Name: Alcon Cable          |        |
| Personnel: AR EY                           | Permit Number:                      |        |
| Current Weather Conditions: Cloudy Warm    | Weather Conditions for Past 7 days: |        |
| Photo Ids: Upstream: 90AA                  | Downstream: 91AA                    | Other: |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Fishing & Tackle (Bank line) 92AA

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands  | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests        | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|   |  |  |   |  |
|---|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks           |
| <input type="checkbox"/> Rope swings      | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input checked="" type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other:           |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream too deep for entry

**Stream Morphology:**

**Upstream View Physical Dimensions:** Visual Estimates

|  |                        |   |                                   |                                   |
|--|------------------------|---|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                  |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                  |
| <input type="checkbox"/> Pool            | Width (ft): <u>20m</u> | Length (ft): <u>10m</u>   | Avg. Depth (ft): <u>&gt; 1.4m</u> | Max. Depth (ft): <u>&gt; 1.4m</u> |
| <input checked="" type="checkbox"/> Flow | Present?               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                   |

**Downstream View Physical Dimensions:**

|  |                        |   |                                   |                                   |
|--|------------------------|---|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                  |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):                  |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>20m</u> | Length (ft): <u>10m</u>   | Avg. Depth (ft): <u>&gt; 1.4m</u> | Max. Depth (ft): <u>&gt; 1.4m</u> |
| <input checked="" type="checkbox"/> Flow | Present?               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                   |

**Substrate\*:** (These values should add up to 100%.)

|                                   |                                   |                                 |                                    |  |                                    |
|-----------------------------------|-----------------------------------|---------------------------------|------------------------------------|--|------------------------------------|
| <input type="checkbox"/> % Cobble | <input type="checkbox"/> % Gravel | <input type="checkbox"/> % Sand | <input type="checkbox"/> 50 % Silt | <input type="checkbox"/> 50 % Mud/Clay | <input type="checkbox"/> % Bedrock |
|-----------------------------------|-----------------------------------|---------------------------------|------------------------------------|--|------------------------------------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|             |
|-------------|
| <u>None</u> |
|-------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |                                 |                                 |  |   |   |
|------------------|---------------------------------|---------------------------------|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u> |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input checked="" type="checkbox"/> Foam           | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Petty Date: 06/30/05  
 Organization: TE Position: SCI.I.

QC 224 6-30-2005

0855\_406 DS



0855\_406 US





0855\_406 Bank Line



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|  |                  |                                     |  |
|--|------------------|-------------------------------------|--|
| Missouri WBID #: 0855 (407)                |                  | Site Location Description:          |  |
| Site GPS Coordinates: 38.64719N 093.54796W |                  | SE 725 St @ bridge                  |  |
| Date & Time: 6/30/2005 1025                |                  | Facility Name: Alcan Cable          |  |
| Personnel: AR EY                           |                  | Permit Number:                      |  |
| Current Weather Conditions: Cloudy Warm    |                  | Weather Conditions for Past 7 days: |  |
| Photo Ids: Upstream: 87AA                  | Downstream: 88AA | Other:                              |  |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Live stock watering 898AA  
EY-6/30/05

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |   |   |  |   |
|--|---|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds      | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks      | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input checked="" type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes           | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|                                      |  |  |  |  |
|--------------------------------------|--|--|--|--|
| <input type="checkbox"/> Roads       | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input checked="" type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge               | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:      |  |  |  |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

AR 06/30/05

Stream Morphology:

Visual Estimates \*

Upstream View Physical Dimensions:

|  |                       |   |                                   |                              |
|--|-----------------------|---|-----------------------------------|------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Run             | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>8m</u> | Length (ft): <u>10m</u>   | Avg. Depth (ft): <u>0.4m</u>      | Max. Depth (ft): <u>0.5m</u> |
| <input checked="" type="checkbox"/> Flow | Present?              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |

Downstream View Physical Dimensions:

|  |                       |   |                                   |                              |
|--|-----------------------|---|-----------------------------------|------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Run  | Width (ft): <u>5m</u> | Length (ft): <u>10m</u>   | Avg. Depth (ft): <u>0.2m</u>      | Max. Depth (ft): <u>0.3m</u> |
| <input type="checkbox"/> Pool            | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Flow | Present?              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |

Substrate\*: (These values should add up to 100%.)

|                   |                   |                 |                  |                      |                    |
|-------------------|-------------------|-----------------|------------------|----------------------|--------------------|
| <u>0</u> % Cobble | <u>0</u> % Gravel | <u>0</u> % Sand | <u>30</u> % Silt | <u>50</u> % Mud/Clay | <u>0</u> % Bedrock |
|-------------------|-------------------|-----------------|------------------|----------------------|--------------------|

Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

Water cress

Water Characteristics\*: (Mark all that apply.)

|                  |   |                                 |  |   |   |
|------------------|---|---------------------------------|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage         | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear          | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>brown</u> |
| Bottom Deposit:  | <input type="checkbox"/> Sludge         | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input checked="" type="checkbox"/> Oil | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam                      | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adam Nefky Date: 06/30/05

Organization: Tx Position: JCI. I.

\* we could not get into the stream due to the fences.

QC Ely 6-30-05



0855\_407 DS



0855\_407 US





MUDDY CREEK 407  
6-30-05

LIVESTOCK WATERING

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|   |                         |                                     |  |
|---|-------------------------|-------------------------------------|--|
| Missouri WBID #: <b>0855 (408)</b>                |                         | Site Location Description:          |  |
| Site GPS Coordinates: <b>38.58681N 093.57573W</b> |                         | <b>SE 1100 Rd @ Bridge</b>          |  |
| Date & Time: <b>06/30/2005 1010</b>               |                         | Facility Name: <b>Alcan Cable</b>   |  |
| Personnel: <b>AR ELY</b>                          |                         | Permit Number:                      |  |
| Current Weather Conditions: <b>Cloudy Warm</b>    |                         | Weather Conditions for Past 7 days: |  |
| Photo Ids: Upstream: <b>84AA</b>                  | Downstream: <b>85AA</b> | Other:                              |  |

#### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Pictures**  
**Fence & Livestock Watering : 86AA**

**\* Sign in pictures will say 407, but they are for 408**

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |   |   |  |   |
|--|---|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds      | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks      | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input checked="" type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes           | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|   |  |  |  |  |
|---|--|--|--|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input checked="" type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings      | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge               | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:           |  |  |  |  |

#### Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

**ARZ 06-30-05**



Visual Estimate

## Stream Morphology:

## Upstream View Physical Dimensions:

|  |                       |   |                                   |                              |
|--|-----------------------|---|-----------------------------------|------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Run             | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Pool            | Width (ft): <u>1m</u> | Length (ft): <u>10m</u>   | Avg. Depth (ft): <u>0.2m</u>      | Max. Depth (ft): <u>0.3m</u> |
| <input checked="" type="checkbox"/> Flow | Present?              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |

## Downstream View Physical Dimensions:

|                                 |                        |  |                                   |                              |
|---------------------------------|------------------------|--|-----------------------------------|------------------------------|
| <input type="checkbox"/> Riffle | Width (ft):            | Length (ft):   | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Run    | Width (ft):            | Length (ft):   | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Pool   | Width (ft): <u>10m</u> | Length (ft): <u>10m</u>                                  | Avg. Depth (ft): <u>0.2m</u>      | Max. Depth (ft): <u>0.3m</u> |
| <input type="checkbox"/> Flow   | Present?               | <input type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |

## Substrate\*: (These values should add up to 100%.)

|                    |                   |                 |                 |                      |                    |
|--------------------|-------------------|-----------------|-----------------|----------------------|--------------------|
| <u>30</u> % Cobble | <u>0</u> % Gravel | <u>0</u> % Sand | <u>0</u> % Silt | <u>70</u> % Mud/Clay | <u>0</u> % Bedrock |
|--------------------|-------------------|-----------------|-----------------|----------------------|--------------------|

## Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

|                |
|----------------|
| <u>grasses</u> |
|----------------|

## Water Characteristics\*: (Mark all that apply.)

|                  |  |                                 |  |   |   |
|------------------|--|---------------------------------|--|---|---|
| Odor:            | <input type="checkbox"/> Sewage            | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |
| Color:           | <input type="checkbox"/> Clear             | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input checked="" type="checkbox"/> Milky | <input checked="" type="checkbox"/> Other: <u>Brown</u> |
| Bottom Deposit:  | <input checked="" type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None             | <input type="checkbox"/> Other:                         |
| Surface Deposit: | <input type="checkbox"/> Oil               | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam                      | <input checked="" type="checkbox"/> None  | <input type="checkbox"/> Other:                         |

Comments: Please attach additional comments (including information from interviews) to this form.

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adrian Petty Date: 06-30-05Organization: It Position: SCI. I.

We couldn't get into the stream due to the fences.

QC Ely 6-30-05

0855\_408 DS



0855\_408 US



0855\_Fence Livestock Watering

